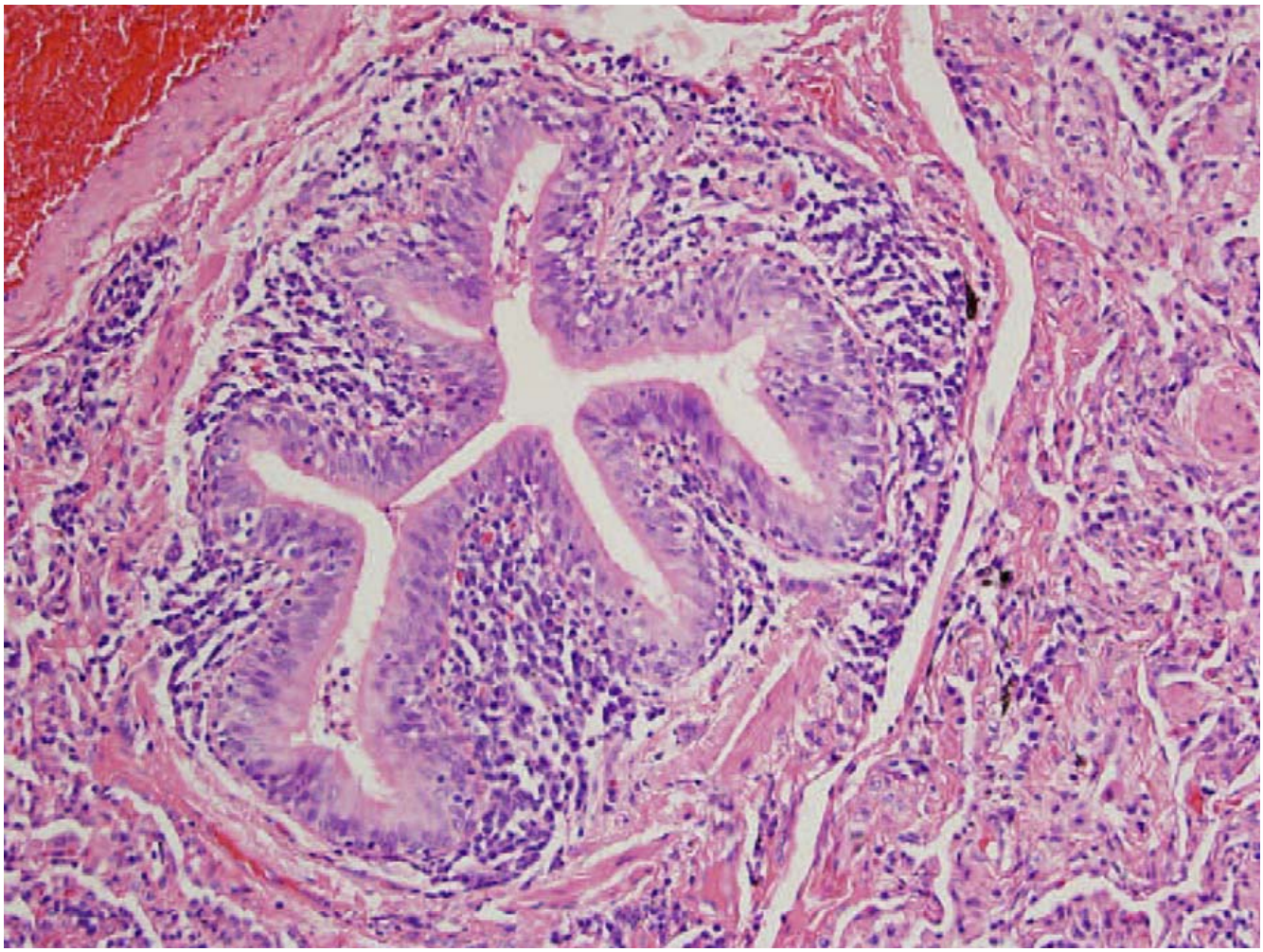
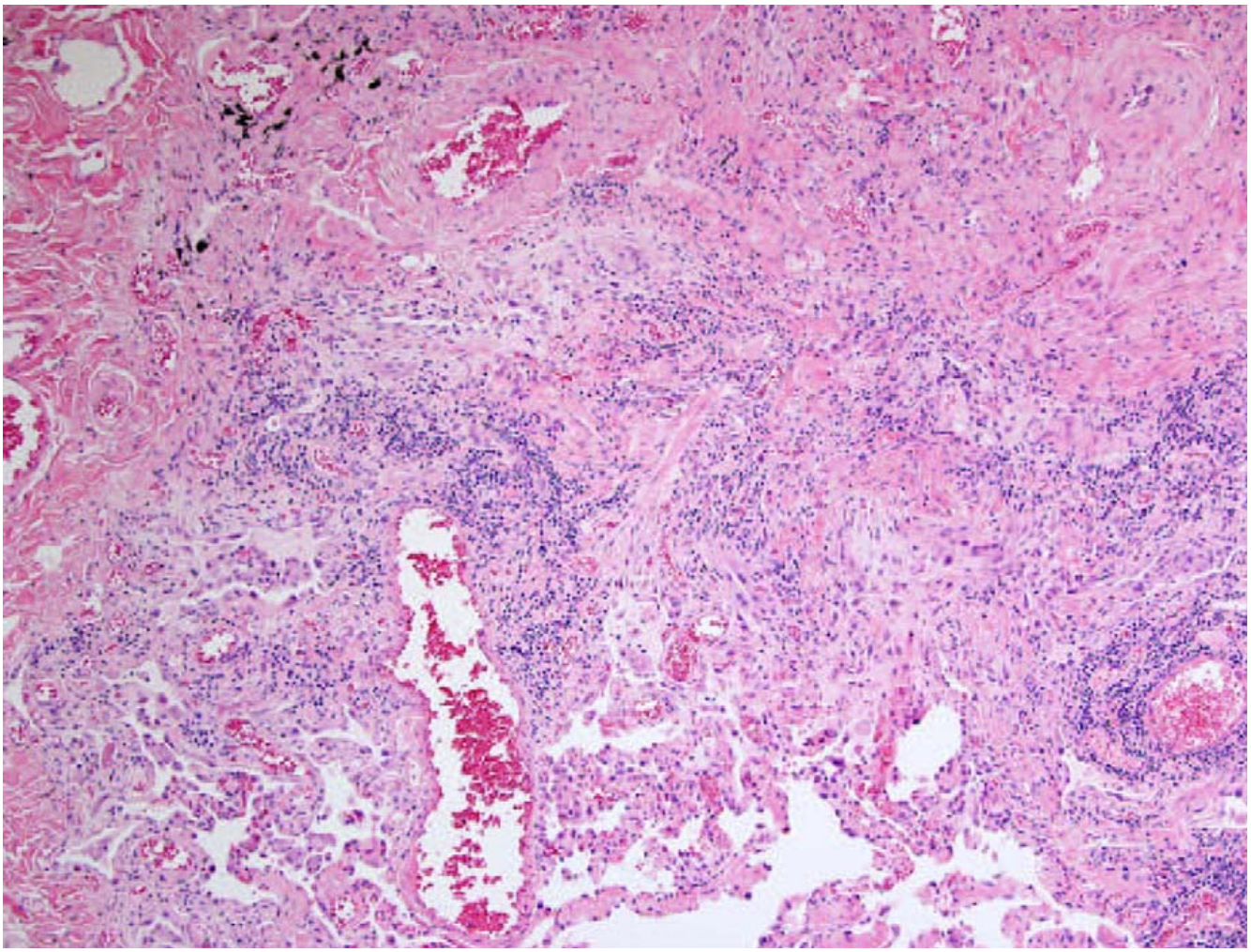
Supplemental Table 1. Summary of likely composition of WTC dust and smoke

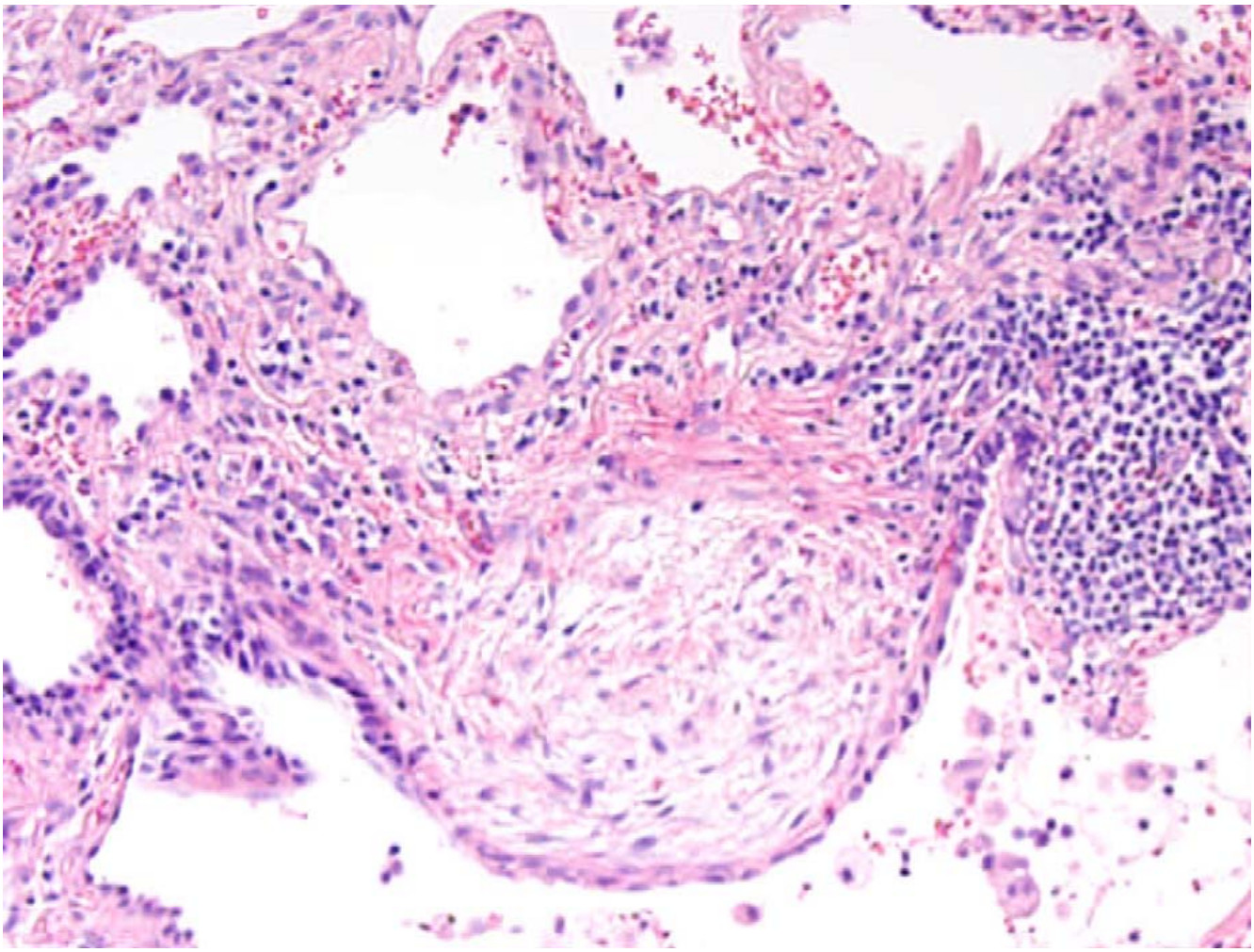
Category	Elements
Construction debris	pulverized cement, glass fragments, paint particles, gypsum, calcite, and silica
Inorganic compounds and metals	chromium, magnesium, aluminium, barium, Silicon, mercury, lead, and titanium
Fibers	glass, chrysotile asbestos, and gypsum
Organic compounds	polyaromatic hydrocarbons (PAHs), polychlorinated biphenyls (PCB's), freon, benzene, and pesticides
Diesel exhaust fumes from vehicles and Machinery involved in rescue and relief Operations and gases	PAHs, carbon monoxide and hydrogen sulfide

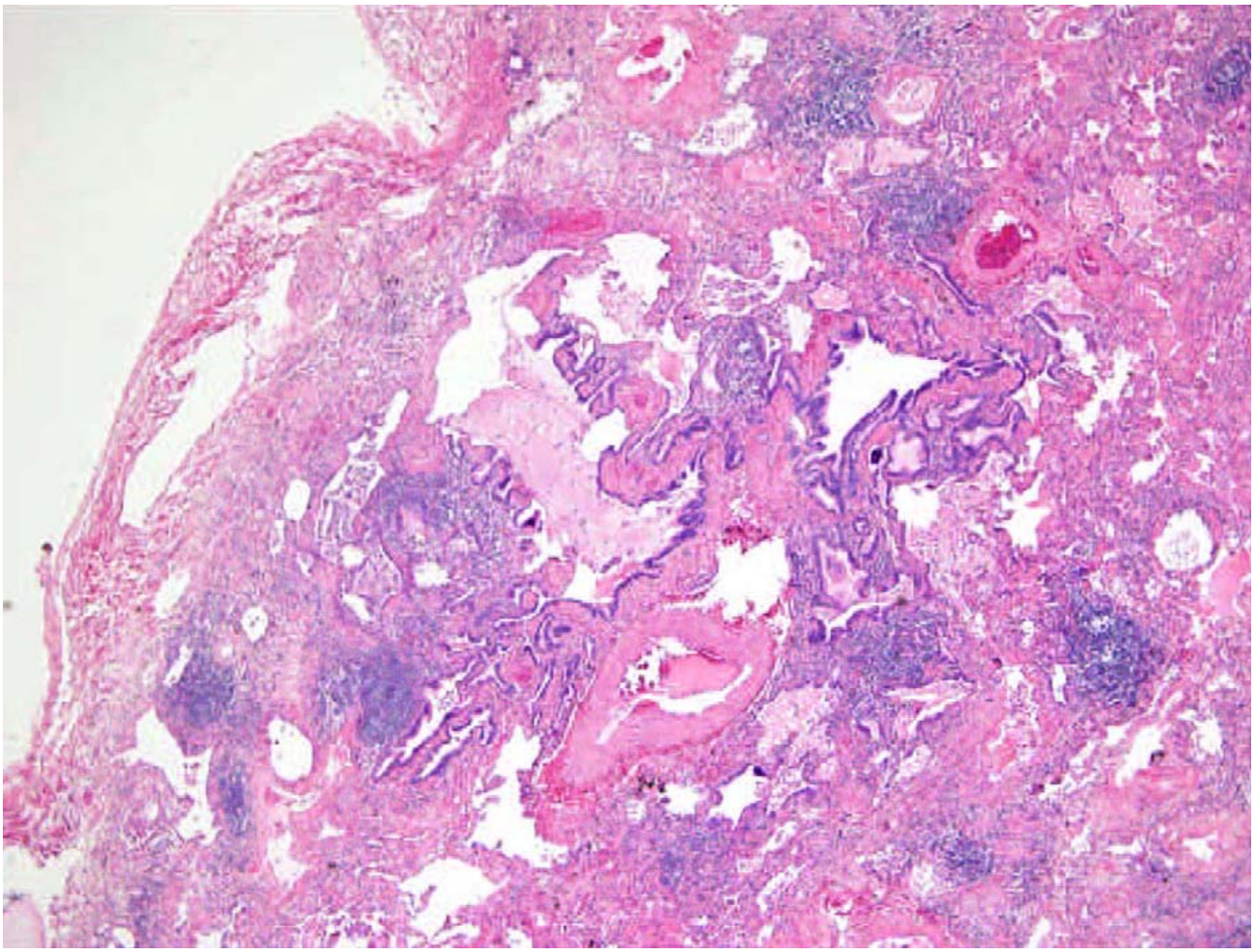
Supplemental Table 2. Summary of clinical, WTC exposure, PFT and HCRT findings

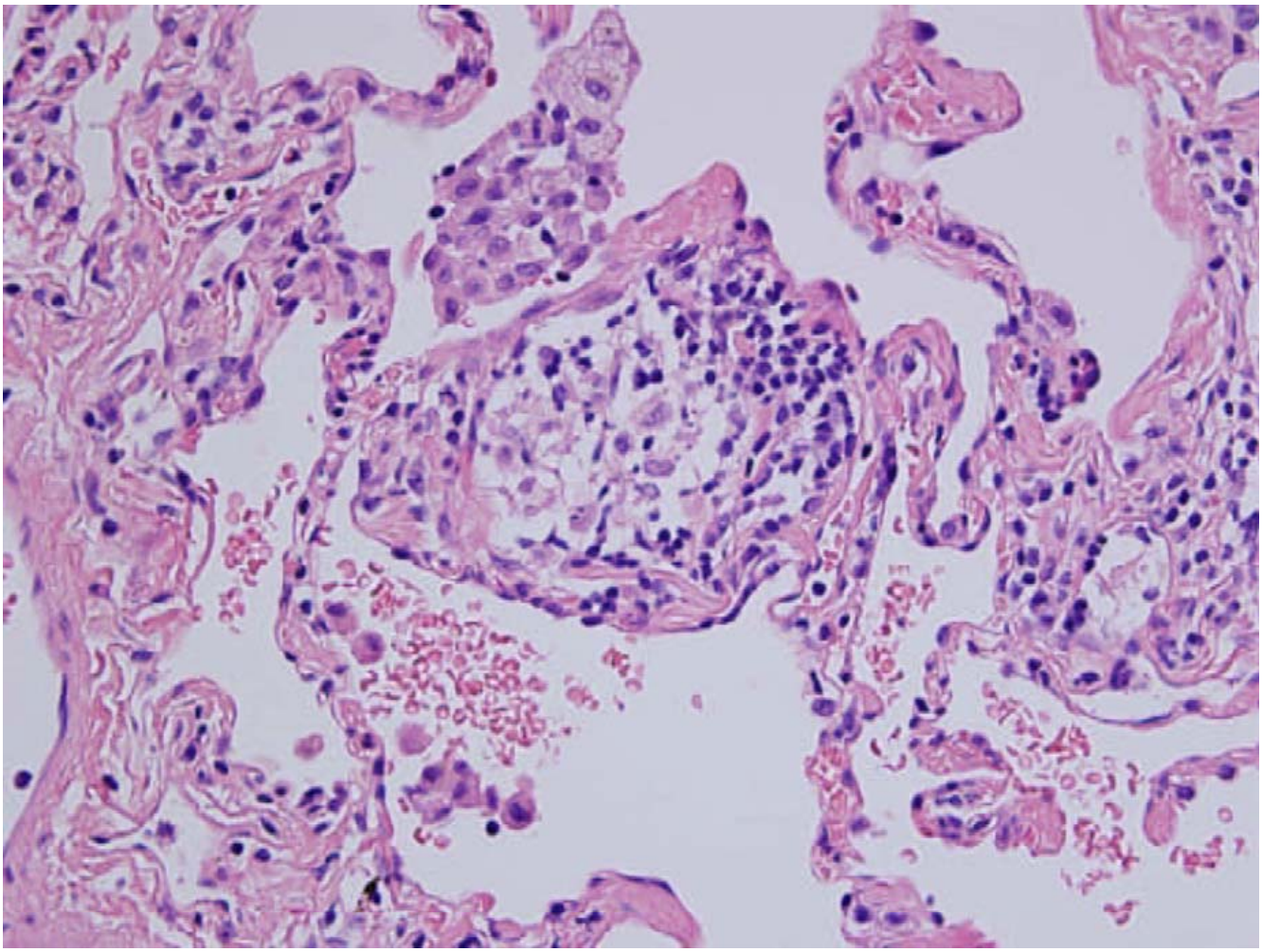
Code	Age/Sex	Occupation	WTC Exposure	PFT FVC (%)	PFT FEV1 (%)	PFT DLCO (%)	HCRT
A	59/F	Health care worker	**9/11**: 4 hrs (directly in the dust cloud) *Lived/worked in the area **Total: 41days or 352 hrs**	41	45	40	Bilateral bronchiectasis, scattered peripheral fibrosis and scattered ground glass changes. On end expiratory CT, there are several small interspersed lucent phase areas in both lower lobes and the right middle lobe suggestive of areas of air trapping
B	59/M	Engineer	**9/11**: 12 hrs (some dust but not in the cloud of dust) **Total: 90 days or 1080 hours**	81	84	96	Diffuse interstitial nodular pattern (D/N): Prominent interstitial marking with intermixed bronchiectatic changes Multiple pulmonary non-specific nodules
C	49/M	Building Cleaner	**9/12 – 9/19**: (no data about cloud) **Total: 8 days or 102 hrs**	51	56	35	Sub pleural interstitial linear and ground glass changes; mild increased lymph nodes
D	40/M	Health care worker	**9/11**: 16 hrs (caught directly in the cloud) **Total: 95 days or 1520 hrs**	65	70	ND	Moderate to severe air-trapping (AT)
E	46/F	Law enforcement	**9/11**: 12 hrs (caught in the cloud) **Total: 41 days or 352 hrs**	65	69	46	Peripheral changes UIP type; questionable mediastinal nodes
F	55/F	Building Cleaner	**9/12**: 12 hrs (1st day of arrival) **Total: 73 days or 660 hrs**	114	114	93	Moderate severe air-trapping (AT)
G	55/M	Law enforcement	**9/11**: 18 hrs (sig. Dust but not caught in the cloud) **Total: 101 days or 1236 hours**	100	96	ND	Borderline Calcified nodes, central peribronchial interstitial disease amorphous mass like in density in RML.

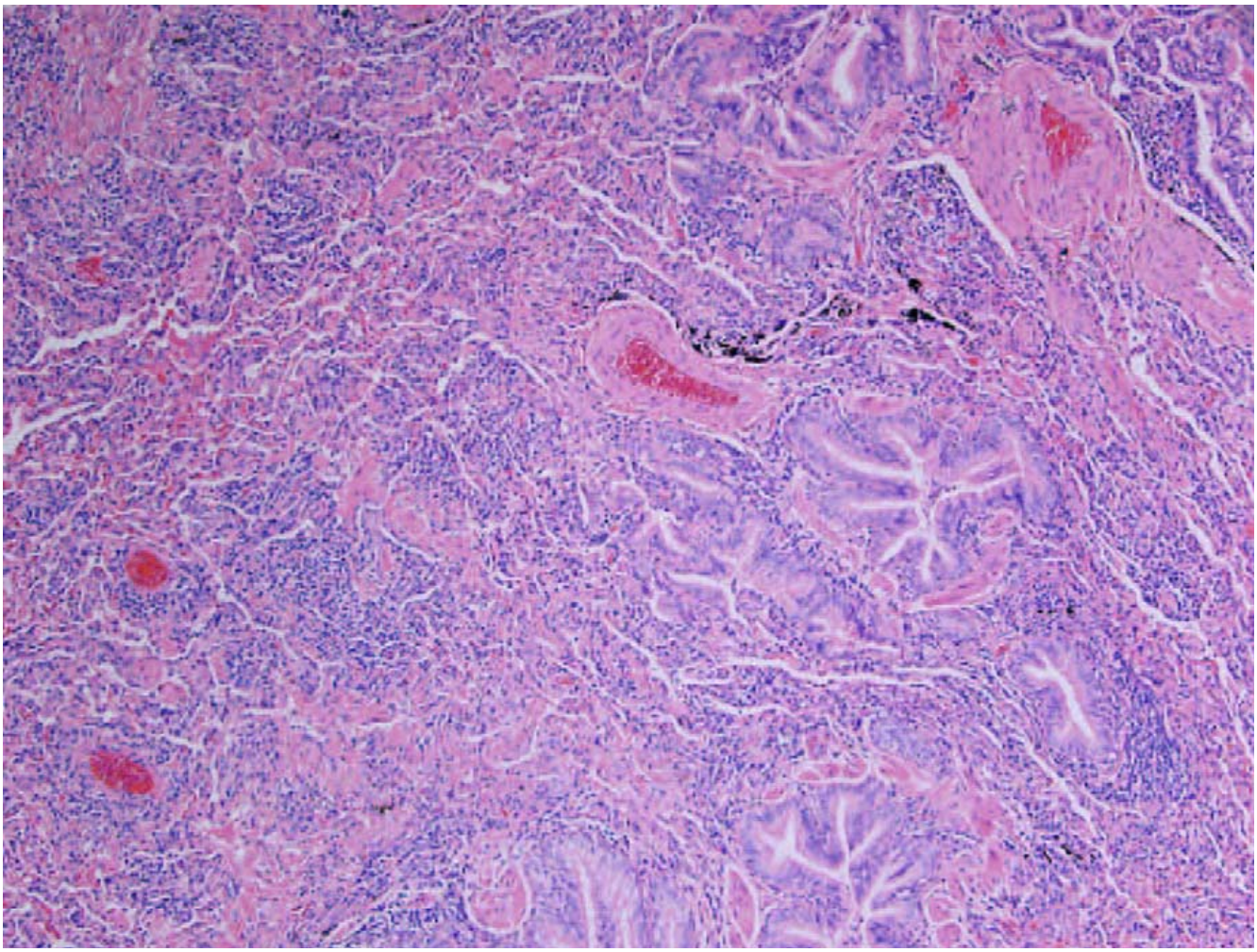












Supplemental Micrographs to Ms
LUNG DISEASE in RESPONDERS EXPOSED to WTC DUST/SMOKE
By
M Wu, RE Gordon, R Herbert, M Padilla, J Moline, D Mendelson, V Little,
W Travis and J Gil

Captions of supplemental histological micrographs:

Fig 1A- Patient D: Bronchiole with mild chronic inflammation

Fig 1B- Patient A: Lung parenchuyma showing severe lung fibrosis with spatial variability

Fig 1C- Patient E: Large fibroblastic focus, subepitelial.

Fig 1D- Patient C: Central bronchiole surrounded by fibrotic area with bronchiolar metaplasia (peribronchiolar fibrosis)

Fig 1E- Patient G: Lung with substantial accumulation of interstitial lymphocytes. Note macrophages in alveolar space.

Fig 1F- Patient B: Lung fibrosis with severe lymphocytic infiltrates in the interstitial compartment and fibrosis.